



FORM PTO-1449	APPLICATION NO. 10/783,060	ATTORNEY DOCKET NO. 10114-18 (WSU 04-681)
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	FILING DATE February 20, 2004	GROUP ART UNIT 1714
	FIRST NAMED INVENTOR: ESIN GULARI ET AL.	
EXAMINER NAME:		

EXAMINER INITIALS	Cite No.	DOCUMENT NUMBER Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where, Relevant Passages or Relevant Figures Appear
	A1				
	A2				
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
	A9				
	A10				
	A11				
	A12				
	A13				

#### FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No.	Foreign Patent Document Country Code, Number-Number- Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where, Relevant Passages or Relevant Figures Appear	T
	A14					
	A15					
	A16					
	A17					
	A18					

EXAMINER INITIAL	NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.					T
/CS/	A19	Article from <i>Journal of Materials Chemistry</i> , by Andrew I Cooper, titled: "Polymer Synthesis and Processing Using Supercritical Carbon Dioxide," dated: September 29, 1999, pages 207-234.				
	A20					
	A21					
	A22					
	A23					
	A24					

NOTE: For "T" - please place an "X" if an English translation is being provided to the Patent Office.

EXAMINER /Callie Shosho/	DATE CONSIDERED 08/17/2007
-----------------------------	-------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449	APPLICATION NO. 10/783,060	ATTORNEY DOCKET NO. 10114-18
<b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>	FILING DATE February 20, 2004	GROUP ART UNIT 1714
(use several sheets if necessary)	FIRST NAMED INVENTOR: ESIN GULARI ET AL.	
	EXAMINER NAME:	

EXAMINER INITIALS	Cite No.	DOCUMENT NUMBER Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where, Relevant Passages or Relevant Figures Appear
/CS/	A1	2004/0106720 A1	06/03/2004	JEROME ET AL.	
/CS/	A2	2005/0014867 A1	01/20/2005	GULARI ET AL.	
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
	A9				
	A10				
	A11				
	A12				
	A13				

#### FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No.	Foreign Patent Document Country Code, Number -Number- Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where, Relevant Passages or Relevant Figures Appear	T
/CS/	A14	DE 198 21 477 A1	11/18/1999	BASF AG		
/CS/	A15	DE 100 36 336 A1	02/07/2002	BAYER AG		
/CS/	A16	EP 1 247 829 A1	10/09/2002	UNIVERSITY OF LIEGE		
	A17					
	A18					

EXAMINER INITIAL	NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.					T
	A19					
	A20					
	A21					
	A22					
	A23					
	A24					

NOTE: For "T" - please place an "X" if an English translation is being provided to the Patent Office.

EXAMINER /Callie Shosho/	DATE CONSIDERED 08/17/2007
-----------------------------	-------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449	APPLICATION NO. 10/783,060	ATTORNEY DOCKET NO. 10114-018
<b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S SECOND SUPPLEMENT INFORMATION DISCLOSURE STATEMENT</b>	FILING DATE February 20, 2005	GROUP ART UNIT 1714
(use several sheets if necessary)	FIRST NAMED INVENTOR: ESIN GULARI ET AL.	
	EXAMINER NAME:	

EXAMINER INITIALS	Cite No.	DOCUMENT NUMBER Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where, Relevant Passages or Relevant Figures Appear
/CS/ ↓		4,946,892	08/07/1990	CHUNG	
		2002/0054995 A1	05/09/2002	MAZURKIEWICZ	
		2002/0082331 A1	06/27/2002	MIELEWSKI et al.	
		2004/0033189 A1	02/19/2004	KASCHAK et al.	
		2004/0034151 A1	02/19/2004	KASCHAK et al.	

#### FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No.	Foreign Patent Document Country Code, Number -Number- Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where, Relevant Passages or Relevant Figures Appear	T
/CS/		WO 98/09926	03/12/1998	EUROPE		

EXAMINER INITIAL	NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.	T
/CS/	Gulay K. Serhatkulu, et al., "A New Approach to Polymer Nanocomposites with Supercritical CO <sub>2</sub> Exfoliated Clays," November 2002, <a href="https://engineering.purdue.edu/ChE/Nano/NanoChmE/NSE_Topical_2002/SynthesisandProcessingofNanocompositesAbstracts.htm">https://engineering.purdue.edu/ChE/Nano/NanoChmE/NSE_Topical_2002/SynthesisandProcessingofNanocompositesAbstracts.htm</a>	X

NOTE: For "T" - please place an "X" if an English translation is being provided to the Patent Office.

EXAMINER /Callie Shosho/	DATE CONSIDERED 08/17/2007
-----------------------------	-------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449

FORM P-11449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICATION NO. 10/783,060	CASE NO. 10114-018
	FILING DATE February 20, 2004	ART UNIT 1714
	APPLICANT(S): Esin Gulari et al.	

### REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

[illegible]

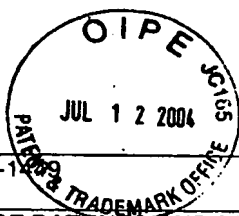
## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION	
						YES	NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)
ICS/	Manuel Garcia-Leiner et al., "Polymer Nanocomposites Prepared By Supercritical Carbon Dioxide-Assisted Polymer Processing," 2004, Polymer Preprints, Vol. 45(1), pp. 520-521.
	K. Takahama et al., "Supercritical drying of SiO <sub>2</sub> -TiO <sub>2</sub> sol-pillared clays," 1992, Journal of Materials Science 27, pp. 1297-1301.
	Manuel Garcia-Leiner et al., "Processing of Intractable Polymers Using High-Pressure Carbon Dioxide," 2003, ANTEC, pp. 1610-1614.
	Manuel Garcia-Leiner et al., "A Study of the Foaming Process of Polyethylene with High Pressure CO <sub>2</sub> in a Modified Extrusion System." (NA)
	Manuel Garcia-Leiner et al., "Drawing of UHMWPE Fibers in the Presence of Supercritical CO <sub>2</sub> ." (NA)
	Will Strauss et al., "Supercritical CO <sub>2</sub> Processed Polystyrene Nanocomposite Foams," May 2004, Journal of Cellular Plastics, Volume 40, pp. 229-241.
	Mingjun Yuan et al., "Study of Injection Molded Microcellular Polyamide-6 Nanocomposites" April 2004, Polymer Engineering and Science, Vol. 44, No. 4, pp. 673-686.
	Xiangmin Han et al., "Extrusion of Polystyrene Nanocomposite Foams with Supercritical CO <sub>2</sub> ," June 2003, Polymer Engineering and Science, Vol. 43, No. 6, pp. 1261-1275.

EXAMINER	DATE CONSIDERED
/Callie Shosho/	08/17/2007

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1009	APPLICATION NO. 10/783,060	CASE NO. 10114-018
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE February 20, 2004	ART UNIT 1714
Sheet 1 of 3	APPLICANT(S): DR. ESIN GULARI et al.	

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
/CS/	5,877,005	03/02/1999	Castor et al.		
/CS/	6,469,073	10/22/2002	Manke et al.		

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)
/CS/	Satoshi Yoda, et al., "Preparation of a Platinum and Palladium/Polyimide Nanocomposite Film as a Precursor of Metal-Doped Carbon Molecular Sieve Membrane via Supercritical Impregnation," September 27, 2003 (revised: 3/08/2004), Chem. Mater., Vol. 16, No. 12, pp. 2363-2368.
	Qian Zhao, et al., "Supercritical CO <sub>2</sub> -Mediated Intercalation of PEO in Clay," July 9, 2003 (revised 8/01/2003), Macromolecules, Vol. 36, No. 19, pp. 6967-6969.
	Tomas Berglof, et al., "Metsulfuron Methyl Sorption—Desorption in Field-Moist Soils," May 2, 2003, J. Agric. Food Chem., Vol. 51, No. 12, pp. 3598-3603.
	M. L. Occelli, et al., "Surface Area, Pore Volume Distribution, and Acidity in Mesoporous Expanded Clay Catalysts from Hybrid Density Functional Theory (DFT) and Adsorption Microcalorimetry Methods," June 20, 2002 (final form 9/11/2002), Langmuir, Vol. 18, No. 25, pp. 9816-9823.
	Ryo Ishii, et al., "A Comparison of Supercritical Carbon Dioxide and Organic Solvents for the Intercalation of 4-Phenylazoaniline into a Pillared Clay Mineral," April 26, 2002 (accepted 7/22/2002), Journal of Colloid and Interface Science 254, pp. 250-256.
	Masami Okamoto, et al., "Biaxial Flow-Induced Alignment of Silicate Layers in Polypropylene/Clay Nanocomposite Foam," June 27, 2001 (revised 7/17/2001), Nano Lett., Vol. 1, No. 9, pp. 503-505.
	Z. Ding, et al., "Characterization of Pore Structure and Coordination of Titanium in TiO <sub>2</sub> and SiO <sub>2</sub> -TiO <sub>2</sub> Sol-Pillared Clays," August 29, 2000 (accepted 2/27/2001), Journal of Colloid and Interface Science 238, pp. 267-272.
	Walter Fiddler, et al., "Potential Artifact Formation of Dioxins in Ball Clay During Supercritical Fluid Extraction," April 25, 2000 (accepted 8/01/2000), Journal of Chromatography A, 902, pp. 427-432.
	Gerson L. V. Coelho, et al., "Desorption of Ethyl Acetate from Adsorbent Surfaces (Organoclays) by Supercritical Carbon Dioxide," Published on Web November 10, 2000, Ind. Eng. Chem. Res., Vol. 40, No. 1, pp. 364-368.
	L. Morselli, et al., "Supercritical Fluid Extraction for the Determination of Petroleum Hydrocarbons in Soil," © 1999, Journal of Chromatography A, 845, pp. 357-363.
	A. C. Pierre, et al., "DLVO Theory and Clay Aggregate Architectures Formed with AlCl <sub>3</sub> , September 17, 1998 (accepted 10/26/1998), Journal of the European Ceramic Society 19, pp. 1615-1622.
↓	Lionel Spack, et al., "Comparison of Supercritical Fluid Extraction (SFE), Soxhlet and Shaking Methods for Pendimethalin Extraction From Soils: Effect of Soil Properties and Water Content," © 1998, Journal of Contaminant Hydrology 33, pp. 171-185.

EXAMINER /Callie Shosho/	DATE CONSIDERED 08/17/2007
-----------------------------	-------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>EXAMINER INITIAL</b>	<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)</b>		
FORM PTO-1449	APPLICATION NO. 10/783,060	CASE NO. 10114-018	
<b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>		FILING DATE February 20, 2004	ART UNIT 1714
Sheet 2 of 3		APPLICANT(S): DR. ESIN GULARI et al.	

**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

<b>EXAMINER INITIAL</b>	<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)</b>		
/CS/		Shijiang Liang, et al., "Extraction of Petroleum Hydrocarbons from Soil Using Supercritical Argon," February 1, 1998, Analytical Chemistry, Vol. 70, No. 3, pp. 616-622.	
		R. Montero-Vazquez, et al., "Kinetics of the Extraction of Pyrene Using Carbon Dioxide in Dense Phase," February 20, 2002, (© 2003), Chemosphere 53, pp. 789-793.	
		Carl D. Saquing, et al., "Preparation of Platinum/Carbon Aerogel Nanocomposites Using A Supercritical Deposition Method," February 2, 2004 (© 4/05/2004), J. Phys. Chem. B 108, pp. 7716-7722.	
		David L. Tomasko, et al., "Supercritical Fluid Applications in Polymer Nanocomposites," October 6, 2003 (© 2003), Current Opinion in Solid State and Materials Science 7, pp. 407-412.	
		Kelly S. Morley, et al., "Supercritical Fluids: A Route to Palladium-Aerogel Nanocomposites," September 11, 2003 (© 2004), J. Mater. Chem., 14, pp. 1212-1217.	
		Xianbo Hu, et al., "Enhanced Crystallization of Bisphenol-A Polycarbonate by Nano-Scale Clays in the Presence of Supercritical Carbon Dioxide," August 12, 2003 (© 2004), <a href="http://www.sciencedirect.com">www.sciencedirect.com</a> , pp. 2334-2340.	
		Mihaela Popovici, et al., "Ultraporous Single Phase Iron Oxide-Silica Nanostructured Aerogels from Ferrous Precursors," June 19, 2003 (published 2004), Langmuir, Vol. 20, No. 4, pp. 425-429.	
		Brady J. Clapsaddle, et al., "Silicon Oxide in an Iron (III) Oxide Matrix: The Sol-Gel Synthesis and Characterization of Fe-Si mixed Oxide Nanocomposites that Contain Iron Oxide As the Major Phase," April 9, 2003 (© 2003), Journal of Non-Crystalline Solids, Vol. 331, pp. 190-201.	
		Youhei Fujimoto, et al., "Well-Controlled Biodegradable Nanocomposite Foams: From Microcellular to Nanocellular," 2003, Macromolecular Rapid Communications, Vol. 24, pp. 457-461.	
↓		Azusa Kameo, et al., "Preparation of Noble Metal Nanoparticles in Supercritical Carbon Dioxide," July 2, 2002 (accepted 9/26/2002), Colloids and Surfaces A: Physicochem. Eng. Aspects, Vol. 215, pp. 181-189.	

EXAMINER	/Callie Shosho/	DATE CONSIDERED	08/17/2007
----------	-----------------	-----------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	APPLICATION NO. 10/783,060	CASE NO. 10114-018
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE February 20, 2004	ART UNIT 1714
Sheet 3 of 3	APPLICANT(S): DR. ESIN GULARI et al.	

**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)				
/CS/		Adam Zerda, et al., "Highly Concentrated, Intercalated Silicate Nanocomposites: Synthesis and Characterization," August 19, 2002 (published 2/11/2003), Macromolecules, Vol. 36, pp. 1603-1608.			
		Jianxin Zhang, et al., "Preparation of a Poly (Methyl Methacrylate)/ Ultrahigh Molecular Weight Polyethylene Blend Using Supercritical Carbon Dioxide and the Identification of a Three-Phase Structure: An Atomic Force Microscopy Study," December 28, 2001 (published 10/05/2002), Macromolecules, Vol. 35, pp. 8869-8877.			
		Maria F. Casula, et al., "FeCo-SiO <sub>2</sub> Nanocomposite Aerogels by High Temperature Supercritical Drying," March 28, 2002 (accepted 2/26/2002), Journal of Materials Chemistry, Vol. 12, pp. 1505-1510.			
		LI. Casas, et al., "Silica Aerogel-Iron Oxide Nanocomposites: Structural and Magnetic Properties," 2001, Journal of Non-Crystalline Solids, Vol. 285, pp. 37-43.			
		Catherine A. Morris, "Modifying Nanoscale Silica With Itself: A Method to Control Surface Properties of Silica Aerogels Independently of Bulk Structure," 2001, Journal of Non-Crystalline Solids, Vol. 285, pp. 29-36.			
		Ken Johns, "Supercritical Fluids-A Novel Approach to Magnetic Media Production?," © 1999, Tribology International, Vol. 31, No. 9, pp. 485-490.			
		James J. Watkins, et al., "Polymer/Metal Nanocomposite Synthesis in Supercritical CO <sub>2</sub> ," July 10, 1995 (received 9/27/1995), Chemistry of Materials, Vol. 7, No. 11, pp. 1991-1994.			
		R. Montero-Vazquez, et al., "Kinetics of the Extraction of Pyrene Using Carbon Dioxide in Dense Phase," May 2, 2003 (accepted 5/13/2003), Chemosphere, Vol. 53, pp. 789-793.			
↓		Valeriy V. Ginzburg, et al., "Theoretical Phase Diagrams of Polymer/Clay Composites: The Role of Grafted Organic Modifiers," August 9, 1989 (received 11/03/1999), Macromolecules, Vol. 33, No. 3, pp. 1089-1099.			

EXAMINER	/Callie Shosho/	DATE CONSIDERED	08/17/2007
----------	-----------------	-----------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.